Info-Hams Digest   Wed, 14 Jul 93   Volume 93 : Issue 851

Today's Topics:
                        2m Radios You Like
  Announcement - ARRL Automated Electronic Mail Server (info@arrl.org)
                    Antenna modelling software
              ARRL DX Bulletin #34 - July 1, 1993
              ARRL DX Bulletin #36 - July 12, 1993
              ARRL DX Bulletin #37 - July 12, 1993
                    Be Careful What You Chew!
        Daily Solar Geophysical Data Broadcast for 13 July
                    DJ-580 TX/RX problem
                    FT530 Tone Burst
              machine-generated CW [LONG LONG]
               MPF102 direct replacement !!!!
                        TS-50
                Worked 7Q7XX - need info

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Tue, 13 Jul 1993 19:51:54 EST
From: anomaly.sbs.com!kd1nr!system@uunet.uu.net
Subject: 2m Radios You Like
To: info-hams@ucsd.edu

n3022@cray.com (Jim Knoll) writes:

> What are the 2m FM mobile radios you like and why?
>

> I am looking to buy a new/used radio for the car and am open
> to people's experiences with various brands, etc. What do you
> think is the best deal for the money?
>
> If you have any suggestions, I would greatly appreciate it.

I used to own a Yaesu FT-2400H and loved it. Matter of fact only reason
I sold it is because I wanted a dual-band mobile.

It's a mil-spec radio (In other words, you can really beat the hell out
of that radio).

The really neat feature of that radio is that you can use a four
character alphanumeric lable for each memory. So in other words, I used
to abbreviate cities down to 3 and 4 chrs like CRN1 and CRN2 for two
machines in Cranston, BSTN for Boston, etc.

Power output is 5/25/50W.

I sold it to a friend of mine who's now using it for packet.

Tony

```
--------------------------------------------------------------------
       o       o  Tony Pelliccio, KD1NR, Control Op 441.750+, ARRL VE
        \    /    system @ garlic.sbs.com
         \__/
  _____(oo)    Cow humor. Sort of like the Far Side.
 /|  ___  \/
/ | {MTV}||       MoooTV - Rockin' Bumpin' and Funkin' into the 90's
* ||{___}||
  ||-----||   (And people thought my last .sig was long, ha!)
  ^^      ^^  -------------------------------------------------------
```

Date: Tue, 13 Jul 1993 07:47:42 GMT
From: news.cerf.net!pagesat!netsys!agate!howland.reston.ans.net!wupost!gumby!
destroyer!cs.ubc.ca!alberta!nebulus!ve6mgs!rec-radio-info@network.UCSD.EDU
Subject: Announcement - ARRL Automated Electronic Mail Server (info@arrl.org)
To: info-hams@ucsd.edu

The American Radio Relay League (ARRL) has a useful service -- the ARRL
Automated Electronic Mail Server. This server lets you access many of our
information files, containing information about various facets of
Amateur Radio. You can retrieve any or all of these files by sending
an email message containing valid commands to info@arrl.org here
at ARRL HQ. Each file you request is then mailed to you automatically,

usually within a few hours.

To use it, mail messages to:

    info@arrl.org

The subject line is ignored. Each line of the message should contain a
command as shown below. You may place as many commands in a message as
you want. Each file you request will be sent to you in a separate message.
Only ASCII text files are supported at present.

Valid INFO commands:

help   Sends this help file
index   Sends an index of the files available from INFO
send FILENAME   Sends "FILENAME" example: send ARRL-EMAIL-ADR
quit   Terminates the transaction (use this if you have
                   a signature or other text at the end of the message.)
reply <address>   Sends the response to the specified address. Put this
                   at the BEGINNING of your message if your From: address
                   is not a valid Internet address.

Note: your message will *not* be read by a human! Do not include any
requests or questions except by way of the above commands. Retrieve
the "ARRL-EMAIL-ADR" file for a list of addresses of ARRL HQ staff.

Sample of files available from INFO: (There are lots more!)

FILENAME   SIZE DATE DESCRIPTION
---------------- ---- ------ --------------------
#Note - If you are not yet an Amateur Radio operator retrieve the
#file PROSPECT (send PROSPECT) for information on how to easily get
#started in this fun hobby.

PROSPECT   2k 930514 How to get your Amateur Radio license
EXAM-SCHEDULE   52k 930629 Current exam schedule info - updated bi-weekly
EXAM-INFO   9k 921020 Examinations - what to bring - requirements
ARRL-EMAIL-ADR   6k 930119 List of HQ Email addresses
ARRL-CATALOG   39k 930709 Catalog of ARRL Publications - commercial content
ARRL-JOIN   2k 930621 How become an ARRL member
ARRL-SERVICES   5k 930621 A condensed list of ARRL membership services
ARRL-TOUR   28k 930621 An electronic tour of ARRL Headquarters
VISIT-HQ   5k 930310 Visiting ARRL HQ - diretions and tour information
BANDS-HF   7k 921203 Breakdown of users of HF spectrum
Q-SIGNALS   1k 921203 ARRL list of Amateur Radio Q-signals
W1AW-SCHEDULE   2k 930120 W1AW schedule of transmissions and operation
BEST-RIG-1   12k 930227 Which rig is best? Part 1 - QST Lab Notes
BEST-RIG-2   22k 930227 Which rig is best? Part 2 - QST Lab Notes

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EMI-GEN           37k 930120 How to solve an EMI/RFI problem - QST Lab Notes
EMI-SOURCE        13k 930607 Where to buy filters - EMI-proof telephones etc.
ADDRESSES         16k 930318 Lots and lots of ham/electonic company addresses
KITS               6k 930430 List of companies that sell kits
BBS               12k 930601 List of ham-radio land-line bulletin boards
FAQ-1             25k 930707 Introduction to the FAQ and Amateur Radio
FAQ-2             45k 930707 Amateur Radio Orgs, Services and Info Sources
FAQ-3             32k 930707 Amateur Radio Advanced and Technical Questions


Enjoy this ARRL service. Please direct comments or suggestions (or flames)
#to ehare@arrl.org. 73 from ARRL HQ. Ed Hare - KA1CV.



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Ed Hare, KA1CV                 ehare@arrl.org
American Radio Relay League
225 Main St.
Newington, CT  06111           "The goal of every engineer is to
(203) 666-1541 - voice         retire without getting blamed for a
ARRL Laboratory Supervisor     major catastrophe." -- Scott Adams
RFI, xmtr and rcvr testing     and Dilbert
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--
  - Postings to rec.radio.info:       rec-radio-info@ve6mgs.ampr.ab.ca
  - rec.radio.info administrivia:      rec-radio-request@ve6mgs.ampr.ab.ca


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Date: Tue, 13 Jul 93 10:29:57 CDT
From: agate!howland.reston.ans.net!darwin.sura.net!news-feed-2.peachnet.edu!
umn.edu!uum1!kksys.com!edgar!brainiac!moron!pillock!stevej@ames.arpa
Subject: Antenna modelling software
To: info-hams@ucsd.edu

swamik@orca.NoSubdomain.NoDomain (Swami Kumaresan) writes:

> Hi
>
>       Im looking for some antenna modeling software for
>       XWindows on a sparc1
>       Sunview
>       Macintosh
>
>
> Any help would be appreciated!
> tnx es 73s
> de kb1amb/aa
>
```

In addition,

        Sun 3/50 with 4.1.1

Steve KA0VYB

ZCZC AE60
QST de W1AW
DX Bulletin 34 ARLD034
~From ARRL Headquarters
Newington CT July 1, 1993
To all radio amateurs

SB DX ARL ARLD034
ARLD034 DX news

Thanks to Larry, WA9MAG, and the Northern Illinois DX Association
for the items in this week's DX bulletin.

CHAGOS ISLAND. Jim, VQ9AC, on Diego Garcia, is quite busy on the
air and plans to be active through July 10. Catch him on 14030 kHz
at 1500z, 18084 at 1805, 18150 at 1718 and 21030 at 1422. QSL via
WN8O.

SARAWAK, EASTERN MALAYSIA. 9M8ZZ can be found around 14200 kHz most
days at 1500z. QSL via PA3FWG.

SAINT PAUL ISLAND. Duane, WV2B, is planning a DXpedition for July 9
through 12 with an emphasis on the WARC bands. Some 6 meter
operating may take place. Please indicate your county on your QSL
card. QSL 1993 CBA.

ERITREA. The DXpedition by K5VT, JH1AJT and DJ9ZB has been
rescheduled for August. This one week operation will include three
full stations, 80 through 6 meters, and operate CW, RTTY, and SSB.

Heard and worked in the midwest include

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    GJ2FMV        10103/0450
    TL8NG         10105/0410

    3B8FG         14011 kHz at 0353z
    3D2RW/R       14086/1113
    3D2RW/R       14126/0732
    BV2TA         14006/1241
    BY1QH         14017/1252
    C56/DL7UTA    14195/0543
    FR5ND         14024/0430
    H44JS         14086/1214
    OD5/SP7LSE    14009/2335
    T5/KB1NW      14186/2300
    TA3D          14007/0410
    TA4A          14004/2336
    ZA1J          14027/0100

    3D2RW/R       18073/0400
    9M2AX         18076/1521
    FK8CP         18119/0217
    XQ0X          18070/2332

    3D2RW/R       21026/0313
    XQ0X          21020/0300
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DXCC NEWS RELEASE. The following documentatiom has been received and approved.

```
3C1TR      Operations beginning April 6, 1993
4J1FS      Operations beginning May, 1992
5R8DS      Operations beginning April 30, 1993
5X1DX      Operations beginning April 26, 1993
5X1XX      Operations beginning April 27, 1993
9M0S       Operations beginning May 26, 1993
BV2/WD8E   Operations beginning February 17, 1993
C9LCK      Operations beginning April 22, 1993
D2AXYK     Operations beginning September 25, 1992
H44/I4LCK  Operations beginning August 2, 1992
J80I       Operations beginning April 26, 1993
KH5K/N9NS  All operations
KH5/N0AFW  All operations
S79CK/D    Operations beginning April 27, 1992
T30AJ      Operations beginning December 11, 1992
V47I       Operations beginning May 11, 1992
VU7SF/API  Operations beginning December 15, 1992
ZX0F       Operations beginning March 22,1993
```

W3GRF SK. Len Chertok, W3GRF, died on June 24 at the age of 71. He
was one of the all-time great contest operators and a real ham.
Some of the greatest DX contest battles of the 1950s and 60s were
between him and former ARRL President Vic Clark, W4KFC. Both of
them steadfastly stuck to bug-sent CW and you always could recognize
them on CW by their fists. In his later years, despite poor health,
his station was a training ground for neophyte contesters. Lenny
was a long-time member and former president of the Potomac Valley
Radio Club. He was an ARRL life member. The funeral was June 28
and burial was in Cheltenham, MD.
NNNN

--
James J. Reisert   Internet: reisert@mast.enet.dec.com
Digital Equipment Corp.   UUCP: ...decwrl!mast.enet.dec.com!reisert
146 Main Street   - MLO3-6/C9 Voice: 508-493-5747
Maynard, MA 01754   FAX: 508-493-0395

Date: Tue, 13 Jul 1993 09:20:19 MDT
From: agate!library.ucla.edu!news.mic.ucla.edu!unixg.ubc.ca!kakwa.ucs.ualberta.ca!
alberta!adec23!ve6mgs!usenet@ames.arpa
Subject: ARRL DX Bulletin #36 - July 12, 1993
To: info-hams@ucsd.edu

ZCZC AE62
QST de W1AW
DX Bulletin 36 ARLD036
~From ARRL Headquarters
Newington CT July 12, 1993
To all radio amateurs

SB DX ARL ARLD036
ARLD036 DXAC Vote Results

The DXAC voted 6 yes and 10 no on the question of adding band or
mode-specific Honor Rolls to the DXCC program. Those voting against
the proposal were concerned about a proliferation of awards.

In another matter, the DXAC voted unanimously against a proposal
that would have changed the Countries List Criteria Point 2,
Separation by Water. Under the failed proposal, distances would
have changed from 225 2(a) and 500-mile 2(b) separations to 100
miles 2(a) and 100 miles 2(b). Committee members felt there was
insufficient support for the proposed change.
NNNN

Date: Tue, 13 Jul 1993 09:20:39 MDT
From: agate!library.ucla.edu!news.mic.ucla.edu!unixg.ubc.ca!kakwa.ucs.ualberta.ca!
alberta!adec23!ve6mgs!usenet@ames.arpa
Subject: ARRL DX Bulletin #37 - July 12, 1993
To: info-hams@ucsd.edu

ZCZC AE63
QST de W1AW
DX Bulletin 37 ARLD037
~From ARRL Headquarters
Newington CT July 12, 1993
To all radio amateurs

SB DX ARL ARLD037
ARLD037 Operations approved

The following documentation has been received and approved:

4S7/NZ9Z   Operations beginning 13 January 1993
6Y5/VE1AI   Operations beginning 23 March 1993
8Q7AF   Operations beginning 17 March 1993
AH1A   Operations beginning 25 January 1993
D2SA   Operations beginning 18 March 1993
S75S   Operations beginning 28 December 1993
TU4EA   Operations beginning 14 April 1992
T5HLL   Operations beginning 15 March 1993
VP5/W2IQ   Operations beginning 1 January 1993
XU7VK   Operations beginning 1 December 1992
ZB2JL   Operations beginning 8 January 1993
NNNN

Date: Tue, 13 Jul 1993 23:41:53 GMT

From: dog.ee.lbl.gov!overload.lbl.gov!agate!pasteur!crown.Berkeley.EDU!
andywang@network.UCSD.EDU
Subject: Be Careful What You Chew!
To: info-hams@ucsd.edu

haynes@cats.ucsc.edu (Jim Haynes) writes:

>There was a little item in the back of the newspaper last week about a man
>who was found, on a routine health screening, to have lead poisoning.
>He was an electrician who was in the habit of chewing on little pieces
>of insulation stripped off wires. The lead was said to come from the
>coloring matter in the insulation. I guess they don't use USDA approved
>food coloring.
>--
>haynes@cats.ucsc.edu
>haynes@cats.bitnet

I had an friend engineer (he's not Fred) who I observered chewing solder.
It's amazing what some people aren't aware of these days. Seems like beer
is a more fun way to do away with some brain cells.

Andrew

Date: 14 Jul 93 14:02:06 GMT
From: news-mail-gateway@ucsd.edu
Subject: Daily Solar Geophysical Data Broadcast for 13 July
To: info-hams@ucsd.edu

!!BEGIN!! (1.0) S.T.D. Solar Geophysical Data Broadcast for DAY 194, 07/13/93
10.7 FLUX=086.6 90-AVG=109   SSN=076   BKI=2332 2122 BAI=008
BGND-XRAY=A6.6   FLU1=5.4E+05 FLU10=1.2E+04 PKI=2343 3222 PAI=013
  BOU-DEV=015,031,038,017,017,008,019,010   DEV-AVG=019 NT   SWF=00:000
 XRAY-MAX= B3.4   @ 0837UT   XRAY-MIN= A5.8   @ 0100UT   XRAY-AVG= A9.2
NEUTN-MAX= +002% @ 2120UT   NEUTN-MIN= -002% @ 1920UT NEUTN-AVG= -0.0%
  PCA-MAX= +0.1DB @ 1655UT   PCA-MIN= -0.7DB @ 1810UT   PCA-AVG= -0.1DB
BOUTF-MAX=55374NT @ 0322UT   BOUTF-MIN=55341NT @ 1747UT BOUTF-AVG=55362NT
GOES7-MAX=P:+000NT@ 0000UT   GOES7-MIN=N:+000NT@ 0000UT G7-AVG=+071,+000,+000
GOES6-MAX=P:+112NT@ 1418UT   GOES6-MIN=N:-067NT@ 2003UT G6-AVG=+095,-019,-048
 FLUXFCST=STD:085,085,090;SESC:085,085,090 BAI/PAI-FCST=010,005,005/010,010,010
    KFCST=2223 1222 2223 1222 27DAY-AP=005,005   27DAY-KP=1122 1211 1112 1222
 WARNINGS=
   ALERTS=
!!END-DATA!!

NOTE: The Effective Sunspot Number for 12 JUL 93 was 58.4.

The Full Kp Indices for 12 JUL 93 are: 3- 2o 4- 3o   2- 2+ 2o 2o

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Date: 14 Jul 93 11:09:34 GMT
From: ogicse!uwm.edu!ux1.cso.uiuc.edu!howland.reston.ans.net!darwin.sura.net!
rouge!jab0684@network.UCSD.EDU
Subject: DJ-580 TX/RX problem
To: info-hams@ucsd.edu

In article <1993Jul8.153547.14425@gallant.apple.com> Will Collier
<COLLIER@gallant.apple.com> writes:
>In article <C9uLEF.CI7@csn.org> Erik Mugele, erik@teal.csn.org writes:
>>tried various anttenas. No luck. One other piece of information...
>>When the transmit problem occurs, the "ON AIR" indicator blinks
>>instead of staying on. What does this indicate?
>
>
>Hi there Erik,
>
>I used to own one of the Alinco DJ-580's, and if memory serves (it might
>not!), I believe the flashing ON AIR segment meant that the unit was
>overheating and would cease transmitting for a time, until it cooled
>down. Since your driving an amp with it, possibly your using it in a
>heavy load situation (a heavy load for a hand held anyway) and it is
>overheating?
>
>My two cents.
>
>Will
>KB5WRK
>Buda, Tx.

I found while experimenting with my modified DJ-580T the on air light will also
blink if you try to transmit somewhere the radio can't
like between (400-410) and (

(>480 mhz).

73 DE kb5udf
.

Date: 14 Jul 93 07:16:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: FT530 Tone Burst

To: info-hams@ucsd.edu

KD1GG writes that as well expanding the coverage of the FT530, it is possible
to take the US version and enable the 1750Hz tone burst.

This is the news that I have been waiting for! I want to get one of these
but object to paying the European price which is some 50% higher than in the
US. If I can buy one Stateside and merely enable the tone burst that seems
like a nice solution to me.

Can someone post the mod, send it to me on email or tell me where to find it
in an archive?

Thanks in advance

Bob Harris   G4APV   R.G.HARRIS@SHU.AC.UK

Date: 13 Jul 1993 16:39:40 -0700
From: elroy.jpl.nasa.gov!swrinde!cs.utexas.edu!asuvax!chnews!ornews.intel.com!
ornews.intel.com!not-for-mail@ames.arpa
Subject: machine-generated CW [LONG LONG]
To: info-hams@ucsd.edu

Well gang, I guess we've come a long way from arguing about whether
or not to use code to arguing about exactly how to send and receive it.
I'll add one more tip here before letting it rest.
A common practice among CW ops was to add a little flourish at the
very end of a contact:

"dit dit di-dit dit"
or
"dit di-di-di dit dit"

Which was replyed to with a "dit dit" followed by the reverse exchange.
Sorta like dapping or "giving five". Keyboard whackers cannot participate
in this exchange of course, since they only have one kind of "dit".
Paddle pushers can't do it either as far as I know, having never tried
using the infernal things.

--
WA7LDV zardoz@ornews.intel.com

Date: 14 Jul 93 18:41:54 GMT
From: news-mail-gateway@ucsd.edu

Subject: MPF102 direct replacement !!!!
To: info-hams@ucsd.edu

Hi folks..
Any idea for replacing the MPF102 FET for use in ARRL handbook(s) projects ?
I will appriciate e-mail answer (some digests never arrived..)

73 de George (SV3CHA)

Date: Wed, 14 Jul 1993 01:40:35 GMT
From: munnari.oz.au!bruce.cs.monash.edu.au!trlluna!titan!rhea!
handers@tcgould.tn.cornell.edu
Subject: TS-50
To: info-hams@ucsd.edu

Has anyone had any experience with the new *small* Kenwood TS-50 HF
mobile rig?? I'd love to buy one because they are so small and compact,
ideal for backpacking, portable, mobile use. However according to a review
I read in "Radio Communication" the Rx leaves a little bit to be desired &
the 3rd order intermod products appeared to be quite poor at only -16dB on
14 MHz!! Ranging to best case of about -24dB on the other bands.
I wonder if they are all like this, or was this just a one off, maybe a
faulty one?? Anyone else tested one? Has anyone used one on air??
73's
Howard VK3AYV

Date: Tue, 13 Jul 1993 20:00:35 EST
From: anomaly.sbs.com!kd1nr!system@uunet.uu.net
Subject: Worked 7Q7XX - need info
To: info-hams@ucsd.edu

ham@wam.umd.edu (Scott Richard Rosenfeld) writes:

>
> During this past weekend's contest, I (due to a zillion of other things
> going on in my house) worked a very limited amount of time. BUT, while
> trolling around 20 CW with the filter on, I heard (and worked) 7Q7XX in
> Malawi, ITU Zone 53.
>
> Anyone help me out with this QSL address please? Definitely via a manager.

That's ok, I'm looking for QSL info for the following stations:

U.S.

N1OZJ
AD4EB

Int'l
RW6PA
GM0MDD
G0TSH

Can anyone help me out with these?

Tony

Date: Tue, 13 Jul 1993 19:57:36 EST
From: anomaly.sbs.com!kd1nr!system@uunet.uu.net
To: info-hams@ucsd.edu

References <1993Jul11.232248.7816@rsg1.er.usgs.gov>,
<930711.234511.0C0.rusnews.w165w@garlic.sbs.com>,
<CA3rFA.84J@news.ess.harris.com>sbs.
Subject : Re: VE Test Conditions

jhobson@SU19F.ess.harris.com (Harv Hobson) writes:

> In article <930711.234511.0C0.rusnews.w165w@garlic.sbs.com> system@garlic.sbs
> .com (Tony Pelliccio) writes:
>
> [...]
>
>>................................. I only tested twice on my 20.
>   ^^^^^^
>>But one thing I've found... if I go in to take a test, I always passed
>   ^^^^^^^^
>>it. So here I sit,..........
>
> Huh?

Woops.. should've said that any test I intended on taking, I've passed.
When I went and took my 4B I had no intention of taking the code but
decided to try it. I got my 4B, but not the 1C. The night I went in to
try for my 1C I got it.

Tony

```
-----------------------------------------------------------------------
         o        o   Tony Pelliccio, KD1NR, Control Op 441.750+, ARRL VE
           \    /     system @ garlic.sbs.com
            \__/
    _____(oo)      Cow humor. Sort of like the Far Side.
   /|  ___  \/
  / | {MTV}||        MoooTV - Rockin' Bumpin' and Funkin' into the 90's
 * ||{___}||
    ||-----||   (And people thought my last .sig was long, ha!)
    ^^      ^^   ----------------------------------------------------------
```

Date: 14 Jul 93 00:41:42 GMT
From: anomaly.sbs.com!kd1nr!system@uunet.uu.net
To: info-hams@ucsd.edu

References <1993Jul12.200632.23803@pixar.com>, <2347@indep1.UUCP>,
<21ucvb$c3u@gopher.cs.uofs.edu>
Subject : Re: Communities that unduly restrict Amateur Radio operations

bill@cs.uofs.edu (Bill Gunshannon) writes:

> In article <2347@indep1.UUCP>, clifto@indep1.UUCP (Cliff Sharp) writes:
> |>   If they don't want me around when I'm getting the practice I need, when
> |> I'm hooking up to the nets I'll need for emergencies and getting to know
> |> the people I'll be working with, then as far as I'm concerned they don't
> |> want me around when the tornado hits, either.
>
> And if you honestly believe that you (or any amateur operator) will be
> missed for even a second, you are extremely naive. The general public
> doesn't know who you are, what you are, or what you do. They get along
> just fine now without you and their lives are no tlikely to end cause
> you won't use your radio to help them. They can't miss what they don't
> know exists.

No, but when their precious cellular phones go out because the power to
the switch is gone and the generators aren't operating they'll sure as
hell want someone around.

Look at the areas that are flooded. Do you think for one minute that the
RBOC or cellular companies are going to leave equipment that's in a
flood area running and increase the damage? I seriously doubt it.

Look at the California earthquake a couple of years back. Only one long
distance carrier was still able to get calls in and out of the area.
Even cellular is fairly useless in that instance because if their
connection with the LEC is cut, they can only talk to other cellulars.

Tony

```
----------------------------------------------------------------------
        o       o   Tony Pelliccio, KD1NR, Control Op 441.750+, ARRL VE
         \     /    system @ garlic.sbs.com
          \__/
   _____(oo)     Cow humor. Sort of like the Far Side.
  /|  ___  \/
 / | {MTV}||       MoooTV - Rockin' Bumpin' and Funkin' into the 90's
*  ||{___}||
   ||-----||   (And people thought my last .sig was long, ha!)
   ^^     ^^  --------------------------------------------------------
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End of Info-Hams Digest V93 #851
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